

16-CH UTP Active Video Receiver Hub

- Detached Screw Terminal Block for UTP Cable Solid Connection
- Brightness & Sharpness Combo (BSC™) Compensation Control
- Non Image Cut (NIC™) surge protection, real time on-line design

Product Datasheet



16-Channel UTP Active Video Receiver Hub
Hum-Bar Rejection Active CAT5 Video BALUN



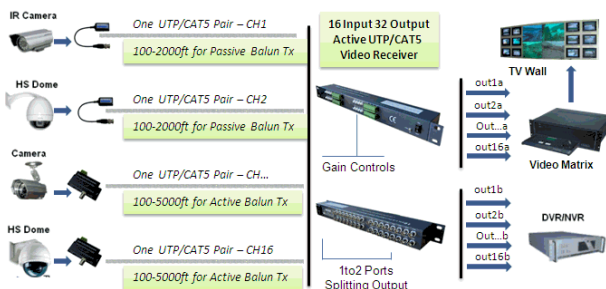
16in 16out Model



16in 32out Model

UTP Active Video Receiver Hub Introduction

16 to 32 Port Active UTP/CAT5 Video Receiver System Configuration Diagram



Technical Specifications

- Video Frequency Response: DC to 6 MHz
- Broadband Amplifier Mode
100V/us transient responding
- Differential Gain: 0.5%
- Differential Phase: 0.3°
- Single tool free potentiometer for each channel Brightness & Sharpness Combo (BSC™) control.
- Common-mode/Differential-mode Rejection:
15KHz to 5 MHz, 65 dB typical.
- Channels Cross Talk: -68dB.
- Loop Return Loss: over 18dB
- Figure Enhanced Output:
4.43MHz extra emphasis
- Line Impedance:
Coax, female BNC 75 ohms, CAT5 line, Terminal Block 100 ohms.
- Wire Type: Network Wiring One Unshielded Twisted Pair 24-16 AWG (0.5-1.31mm).
Category Type Cat5 or better. Impedance 100±20 ohms.
- DC Loop Resistance 52ohms per 1,000 ft (18 ohms per 100m).

16 Channel UTP Active Video Receiver Hub series products are active (amplified) pair equipment that allows the extension of real-time monochrome or color video on up to 4000ft (with Image figure enhanced function), using Category-5 Unshielded Twisted-Pair (UTP) CAT5 networking wire. Composite Video Broadcasting Base band (composite-CVBS/AV, PAL/NTSC/SECAM) signals of any video type are supported.

The unparalleled interference rejection and low emissions of the transceiver allows long run video signals to co-exist in the same wire bundle as telephone, data-com, or low-voltage power circuits. This allows the use of shared or existing cable plant. Ground-lifting circuit design ensures no annoying "hum-bars" when ground potential differences exist. The 16-channel active receivers use stand alone Brightness & Sharpness Combo (BSC™) tool free control and Non Image Cut (NIC™)'s real time on line surge protection instead of traditional fuse design.

Built-in lightning protection, transient protections, ESD protection, power line contact protection, damaging voltage spike problems are eliminated.

Equipment Specifications

- Cable Distance: Up to 4000ft Transmitter-Receiver UTP CAT5 or better.
- Point to point transmission of real-time PAL,NTSC or SECAM 16 channel CVBS video signals.
- Large size detached screw terminal block for UTP cable solid connection.
- Bright & Sharpness Combo (BSC™) tool free single potentiometer adjustment.
- Output Image-Figure-Enhanced (IFE™) feature for long distance compensation.
- Lightning protection, transient protection, ESD protection, power line contact protection, damaging voltage spike problems are eliminated.
- Non Image Cut (NIC™) surge protection, real time on-line protection design.
- 12VDC low voltage power supply, low power consumption circuit.
- Dimensions: 19" 1U mounting rack, grounding connector.

CAT5 Video Transceiver System Configuration Diagram

- Differential Capacitance 19pF/ft max (62pF/m max).
- LED Indicator: Power On Red Indicator LED Light.
- Power Supply: 12VDC-1A (for 16in-16out model), 220V±20 /50-60Hz (for 16in-32out model).
- Power ON/OFF Switch with 1A Fuse (for 16in-32out model only)

Environmental

Temperature -20°C to +65°C.
Humidity (non-condensing) 0 to 95%.

Transient Immunity

6,000 V 1.2µS x 50 µS per ANSI/IEEE 587 C62.41 B3.
3,000 V 8µS x 20 µS when ground screw terminal is bonded to earth-ground.

Equipment Installment

- 1: Put the video signals you need in the VIDEO IN/OUT of UTP transceiver.
- 2: Put a twisted-pair in the VIDEO A, B screw terminals of UTP transmitter and receiver respectively.
- 3: Connect with the mains following instructions shown in the system configuration diagram or sketch map, make sure AC power line voltage range is in 220V±20/50-60Hz, 220VAC to 12VDC-1A adaptor (not included).
- 4: Adjust tool free brightness & sharpness potentiometer correctly according to the distance in transceiver. Clockwise is in maximum and counterclockwise is minimum compensation.
- 5: 'GND' screw terminal is bonded to earth-ground.
- 6: After the five steps, the 16 Channel CAT5 Video Receiver/Hub is ready to work.

Check after Connection

1. Power On Red Indicator LED Light.
2. Make sure that UTP wire and coaxial cable is correctly and firmly connected.
3. Make sure the 'GND' screw terminals are firmly connected to earth-ground.

Mechanical

Dimensions: 19" 1U
Material: Metal housing case

Maintenance & Quality Guarantee

3 Year Warranty